

-1- (JAPIO)

ACCESSION NUMBER

85-032249

TITLE

ZINC ALLOY FOR NEGATIVE ELECTRODE OF PRIMARY BATTERY

PATENT APPLICANT

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APPLICATION DETAILS

83.08.01 83JP-139493, 58-139493

SOURCE

85.06.25 SECT. E, SECTION NO. 324; VOL. 9, NO. 150,  
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INT'L PATENT CLASS

H01M-004/42; C22C-018/00; H01M-004/12

JAPIO CLASS

42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy  
Heat Treating); 12.3 (METALS--Alloys)

ABSTRACT

PURPOSE: To achieve high corrosion resistance and discharge utilization of a zinc alloy containing little or no amalgam and a specified quantity of silver by adding at least one element chosen from among gallium, indium, lead, bismuth and thallium. CONSTITUTION: A zinc alloy containing not less than 0.01% of silver and at least one element chosen from among gallium, indium, lead, bismuth and thallium is used. The zinc alloy containing not less than 0.01% of silver is further treated with an aqueous solution of salts of at least one element chosen from among gallium, indium, lead, bismuth and thallium to coat the surface of the zinc alloy with a substitution layer of said elements. The thus obtained coated zinc alloy has remarkably improved corrosion resistance and discharge characteristic of zinc.